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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/483,756	01/14/2000	Wei Tian	1918JB	8796
7590	10/22/2003			
Michael L Leetzow P O Box 489 Hickory, NC 28603-0489			EXAMINER NGUYEN, DUC MINH	
			ART UNIT 2643	PAPER NUMBER 4
DATE MAILED: 10/22/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/483,756

Applicant(s)

TIAN ET AL

Examiner

Duc Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_ 6) ☐ Other: \_\_\_\_.

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## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitations of claims 5 (all limitations), 7-8 (the last limitation) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 7-8 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitations “the outputs of the second stage are operatively connected to the first and second inputs of the first stage” and “the outputs of the third stage are operatively

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connected to the first and second inputs of the first stage” and “third output, connected via a second capacitor to the first input, and a fourth output, connected via a third capacitor to the second input” are not support by the specification and the drawings.

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4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 7-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitations “the outputs of the second stage are operatively connected to the first and second inputs of the first stage” and “the outputs of the third stage are operatively connected to the first and second inputs of the first stage” and “third output, connected via a second capacitor to the first input, and a fourth output, connected via a third capacitor to the second input” are not support by the specification and the drawings.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who

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has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Bella (6,137,880).

Consider claims 1, 6, 13. Bella illustrates in fig. 6 a frequency sensitive electrical circuit (370), comprising first and second inputs; at least one transformer circuit (L11 or L12 or L13) having a first winding connected to the first input and a second winding connected to the second input; a first load (374) connected in parallel to the first winding (L12); a second load (376) connected in parallel to the second winding (L12); first and second outputs connected to the first and second windings; and a capacitor (C24) connected between the first and second outputs.

Consider claims 2, 9, 14. Bella further teaches a signal carrying both voice and data information is received at the first and second inputs (see the abstract; col. 1, ln. 19-35).

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Consider claims 3, 10, 15. Bella further teaches the circuit filters a lower frequency portion of a signal received at the first and second inputs (i.e., can be used as low pass filters; col. 10, ln. 13-16).

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Consider claims 4, 11, 16. Bella further teaches the circuit reduces the distortion of a signal received at the first and second inputs and delivered at the first and second outputs (col. 9, ln. 48-67).

Consider claims 5, 12, 17. C22 provides third output and C23 provides the fourth output. C22 connected to the input of stage 1 (L12) via R24. C23 connected to the input of stage 1 (L12) via R23.

Consider claim 7. Bella further teaches a first stage comprising first and second inputs; at least one transformer circuit (L11 or L12 or L13) having a first winding connected to the first input and a second winding connected to the second input; a first load (374) connected in parallel to the first winding (L12); a second load (376) connected in parallel to the second winding (L12); first and second outputs connected to the first and second windings; and a capacitor (C24) connected between the first and second outputs. Bella further teaches a second stage (L13) wherein the outputs of the second stage are operatively connected to the first and second inputs of the first stage (i.e., through R24-R25, C22, C28 and R22-23, C23, C27).

Consider claim 8. Bella further teaches a first stage comprising first and second inputs; at least one transformer circuit (L11 or L12 or L13) having a first winding connected to the first input and a second winding connected to the second input; a first load (374) connected in parallel

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to the first winding (L12); a second load (376) connected in parallel to the second winding (L12); first and second outputs connected to the first and second windings; and a capacitor (C24) connected between the first and second outputs. Bella further teaches a third stage (L13) wherein the outputs of the third stage are operatively connected to the first and second inputs of the first stage (i.e., through R24-R25, C22, C28 and R22-23, C23, C27).

***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Nguyen whose telephone number is (703) 308-7527.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Kuntz, can be reached on (703) 305-4708.


**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

703-872-9306  
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

October 17, 2003

  
**DUC NGUYEN  
PRIMARY EXAMINER**